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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,562	12/11/2003	Chris Tuijn	XP-1131	8754
21013 7590 09/12/2007 AGFA CORPORATION PATENT DEPARTMENT 200 BALLARDVALE STREET WILMINGTON, MA 01887			EXAMINER FRINK, JOHN MOORE	
			ART UNIT 2142	PAPER NUMBER
			MAIL DATE 09/12/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/733,562	Applicant(s) TUIJN ET AL.	
	Examiner John M. Frink	Art Unit 2142	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>12/11/2003</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1 – 5, 10, 11 and 14 are rejected under 35 U.S.C. 102(a) as being anticipated by Ng et al. (EP 1 093 265 A2) for at least the reasons given in April 16, 2004 European Search Report.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 3, 7 and 11 – 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen et al. (US 2002/0035604 A1), hereafter Cohen, in view of Ogier et al. (US 2002/0062388 A1), hereafter Ogier.

3. Regarding claim 1, Cohen shows a method for maintaining topology information of a topology of a system comprising a computer network, a first computer and a second computer connected to the first computer via the computer network, the method comprising: sending, to a bootstrap router (represented by the 'host client' [0012]) for

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maintaining said topology information ([0013]) and running on said first computer, a first message indicating a modification of said topology of said system; receiving said first message by said bootstrap router; updating said topology information maintained by said bootstrap router; and sending by said bootstrap router a second message indicating said updated topology information said second computer ([0012-0014,0039-0042]).

Cohen does not show where said computer is also running a router, and the message sent by the bootstrap router is sent to the router running on said second computer.

Ogier shows where said computer is also running a router, and the message sent by the bootstrap router is sent to the router running on said second computer ([0042,0048]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the disclosure of Cohen with that of Ogier in order to better route messages through dynamically changing networks (Ogier, [0008]).

4. Regarding claim 2, Cohen in view of Ogier further show wherein said system further comprises a plurality of computers connected to said computer network, wherein each specific computer out of said plurality of computers has a specific router running on said specific computer, (Cohen, [0009,0011,0014]) the method further comprising sending said second message to each of said specific routers (Ogier, [0042,0048]).

5. Regarding claim 3, Cohen in view of Ogier further show wherein said system further comprises a client computer connected to said computer network and wherein

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said modification of said topology of said system is related to said client computer, the method further comprising: putting said first message on a client controlling queue of said client computer; and getting said first message from said client controlling queue and putting said first message on another controlling queue of said first computer having said bootstrap router (Ogier, [0341-0345]).

6. Regarding claim 7, Cohen in view of Ogier further show wherein said system further comprises a client computer connected to said computer network and wherein said modification of said topology of said system is related to said client computer, the method further comprising: putting said first message on a client controlling queue of said client computer; and getting said first message from said client controlling queue and putting said first message on another controlling queue of said first computer having said bootstrap router (Ogier, [0341-0345]).

7. Regarding claim 11, Cohen in view of Ogier further show a system for maintaining topology information of a topology of linked computers comprising a computer network, a first computer and a second computer connected to the first computer via the computer network, the system comprising: means for sending, to a bootstrap router for maintaining said topology information and running on said first computer, a first message indicating a modification of said topology of said linked computers; means for receiving said first message by said bootstrap router; means for updating said topology information maintained by said bootstrap router; and means for sending by said bootstrap router a second message indicating said updated topology

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information to a router running on said second computer (Cohen, [0009-0014,0039-0042]; Ogier [0042,0048]).

8. Regarding claim 12, Cohen in view of Ogier further show wherein said linked computers further comprise a plurality of computers connected to said computer network, wherein each specific computer out of said plurality of computers has a specific router running on said specific computer, the system further comprising means for sending said second message to each of said specific routers (Cohen, [0009-0014,0039-0042]; Ogier [0042,0048]).

9. Regarding claim 13, Cohen in view of Ogier further show a computer program product comprising a set of computer programs for maintaining a topology information of a topology of a system comprising a computer network, a first computer and a second computer connected to the first computer via the computer network, the computer program product comprising: first program instructions for sending, to a bootstrap router for maintaining said topology information and running on said first computer, a first message indicating a modification of said topology of said system; second program instructions for receiving said first message by said bootstrap router; third program instructions for updating said topology information maintained by said bootstrap router; and fourth program instructions for sending by said bootstrap router a second message indicating said updated topology information to a router running on said second computer (Cohen, [0009-0014,0039-0042]; Ogier [0042,0048]).

10. Regarding claim 14, Cohen in view of Ogier further show a computer readable medium wherein said first, second, third and fourth program instructions are recorded on said medium (Cohen, [0030]).

11. Regarding claim 15, Cohen in view of Ogier further show a method for maintaining by a server computer a topology information of a topology of a system comprising said server computer and a client computer connected to said server computer via a computer network, the method comprising: receiving, by a bootstrap router for maintaining said topology information and running on said server computer (Cohen, [0012-0014, 0039-0042]); a first message indicating a modification of said topology of said system (Ogier, [0008,0042,0048]); updating said topology information maintained by said bootstrap router; and sending by said bootstrap router a second message indicating said updated topology information to a router running on said client computer (Cohen [0039-0042]).

12. Regarding claim 16, Cohen in view of Ogier further show a system for maintaining by a server computer a topology information of a topology of a system comprising said server computer and a client computer connected to said server computer via a computer network, the system comprising: means for receiving, by a bootstrap router for maintaining said topology information and running on said server computer, a first message indicating a modification of said topology of said system; means for updating said topology information maintained by said bootstrap router; and means for sending by said bootstrap router a second message indicating said updated

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topology information to a router running on said client computer (Cohen, [0009-0014,0039-0042]; Ogier [0008, 0042,0048]).

13. Regarding claim 17, Cohen in view of Ogier further show a computer program product for maintaining by a server computer a topology information of a topology of a system comprising said server computer and a client computer connected to said server computer via a computer network, the computer program product comprising: first program instructions for receiving, by a bootstrap router for maintaining said topology information and running on said server computer, a first message indicating a modification of said topology of said system; second program instructions for updating said topology information maintained by said bootstrap router; and third program instructions for sending by said bootstrap router a second message indicating said updated topology information to a router running on said client computer (Cohen, [0009-0014,0039-0042]; Ogier [0008, 0042,0048]).

14. Regarding claim 18, Cohen in view of Ogier further show a computer readable medium wherein said first, second and third program instructions are recorded on said medium (Cohen [0030]).

15. Regarding claim 19, Cohen in view of Ogier further show a method for maintaining a topology information of a topology of a system comprising a server computer and a client computer connected to said server computer via a computer network, the method comprising sending by said client computer a message to a bootstrap router for maintaining said topology information and running on said server computer, wherein said message indicates a modification of said topology of said

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system and wherein said modification is related to said client computer (Cohen, [0009-0014,0039-0042]; Ogier [0008, 0042,0048]).

16. Regarding claim 20, Cohen in view of Ogier further show a client computer for maintaining topology information of a topology of a system comprising a server computer and the client computer connected to said server computer via a computer network, the client computer sending a message to a bootstrap router for maintaining said topology information, wherein said message indicates a modification of said topology of said system and wherein said modification is related to said client computer (Cohen, [0009-0014,0039-0042]; Ogier [0008, 0042,0048]).

17. Regarding claim 21, Cohen in view of Ogier further show computer program product for maintaining a topology information of a topology of a system comprising a server computer and a client computer connected to said server computer via a computer network, the computer program product comprising program instructions for sending by said client computer a message to a bootstrap router for maintaining said topology information and running on said server computer, wherein said message indicates a modification of said topology of said system and wherein said modification is related to said client computer (Cohen, [0009-0014,0039-0042]; Ogier [0008, 0042,0048]).

18. Regarding claim 22, Cohen in view of Ogier further show a computer readable medium wherein said program instructions are recorded on said medium (Cohen [0030]).

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19. Claims 4, 8 and 10 rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen in view of Ogier as applied to claims 1, 2 and 3 above, and further in view of Frolick et al. (US 2003/0046134 A1), hereafter Frolick.

20. Regarding claim 4, Cohen in view of Ogier show claim 3.

Cohen in view of Ogier do not show wherein said modification of said topology comprises adding a new client software component for running on said client computer.

Frolick shows adding a new client software component for running on said client computer, resulting in other users of said software being able to connect, which thus inherently alters and expends a network topology ([0006-0013,0058-0059]), thus showing wherein said modification of said topology comprises adding a new client software component for running on said client computer.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the disclosure of Cohen in view of Ogier with that of Frolick in order to utilize a flexible, device independent and secure collaboration system for sharing data between network users (Frolick, [0006-0013]).

21. Regarding claim 8, Cohen in view of Ogier and Frolick further show said modification of said topology comprises adding a new client software component for running on said client computer ([0006-0013,0058-0059]).

22. Regarding claim 10, Cohen in view of Ogier show claim 1, including where said bootstrap router is a server computer (Cohen [0012]).

Cohen in view of Ogier do not show where it is server computer for running project management software for the graphical industry.

Frolick shows project management software (Abstract, [0058-0059]) utilizing a server computer ([0006-0013,0058-0059]) for use in technological business environments ([0001]), which inherently includes the graphical industry.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the disclosure of Cohen in view of Ogier with that of Frolick in order to utilize a flexible, device independent and secure collaboration system for sharing data between network users (Frolick, [0006-0013]).

23. Claims 5, 6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen in view of Ogier as applied to claims 1, 2 and 3 above, and further in view of Benfield et al. (US 2003/0009553 A1), hereafter Benfield.

24. Regarding claim 5, Cohen in view of Ogier show claim 3.

Cohen in view of Ogier do not show wherein said client controlling queue is physically associated with said client computer and wherein said other controlling queue is physically associated with said first computer.

Benfield shows where queues can be physically associated with computers ([0208-0211,0221-0224,0236-0239]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the disclosure of Cohen in view of Ogier with that of Benfield in order to utilize different queue implementations in order to maximize overall system speed and reliability.

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Cohen in view of Ogier and Benfield thus show wherein said client controlling queue is physically associated with said client computer and wherein said other controlling queue is physically associated with said first computer.

25. Regarding claim 6, Cohen in view of Ogier and Benfield further show where said client controlling queue and said other controlling queue are persistent queues (Benfield [0208-0211,0221-0224,0236-0239]).

26. Regarding claim 9, Cohen in view of Ogier and Benfield further show wherein said client controlling queue is physically associated with said client computer and wherein said other controlling queue is physically associated with said first computer (Benfield [0208-0211,0221-0224,0236-0239]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John M. Frink whose telephone number is (571) 272-9686. The examiner can normally be reached on M-F 7:30AM - 5:00PM EST; off alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571)272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John Frink

(571) 272-9686

A handwritten signature in black ink, appearing to read "Andrew Caldwell". The signature is fluid and cursive, with a large, stylized "A" and "C".

ANDREW CALDWELL
SUPERVISORY PATENT EXAMINER